



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

C2
Job Sheet 183511



Part No: C2

Job Qty: 1 ea

Part Name: C-Series Remote Hook 2,000 lbs Lift Capacity



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 9/19/18

Job Tracking No:

Due Date: 10/26/18

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG C2 Rev. 2 IPP Rev. A 18.04.24 new issue DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea		10/26/18	0.00	0.00	Start Up Small Fab-4		
100	Small Fab	1 pcs		10/26/18	0.00	1.00	Small Fab-3		
110	QC	1 pcs		10/26/18	0.00	0.00	QC5		
120	DC	1 pcs		10/26/18	0.00	0.00	DC		
130	Packaging	1 pcs		10/26/18	0.00	0.00	Packaging3-2		
140	QC21-SA	1 Ea		10/26/18	0.00	0.00	QC21		

Part Op 100 - 1- PICK C2-2-1 AND LASER ENGRAVE AS PER DWG . SEE NOTE 3 AND 4 ON SHEET 3, 2- ASSEMBLE AS
Descriptions: PER DWG

120 - - Photocopy blue file OM & OOPM-C2 Rev 4

130 - Identify and Stock

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
188-FPSS-1032-1/4	Set Screw	2 Ea (2 ea)	90-Start up Operation	5110445
2595K22	Heat Shrink Tube	1 pcs (1 ea)	100-Small Fab	5086652
32446	Crimp Terminal	2 Ea (2 ea)	100-Small Fab	5047075
AN3-14A	Bolt	1 Ea (1 ea)	100-Small Fab	5068652
AN4-16A	Bolt	2 Ea (2 ea)	100-Small Fab	5099499
AN4-17A	Bolt	1 Ea (1 ea)	100-Small Fab	5106972
C2-1-1	Manual Release Knob	1 Ea (1 ea)	100-Small Fab	5100145
C2-10-1	Lock Spring Pin	1 pcs (1 ea)	100-Small Fab	5068051
C2-11-1P	Side Plate, Solenoid	1 Ea (1 ea)	100-Small Fab	5029233
C2-11-2	Locating Pin	2 Ea (2 ea)	100-Small Fab	5058757
c2-12-1	Lock Bushing	2 Ea (2 ea)	100-Small Fab	5077637
C2-12-3	Lock	1 Ea (1 ea)	100-Small Fab	5097134
C2-12-7P	Teflon Spacer Lock	2 pcs (2 ea)	100-Small Fab	5029236
C2-12-8	DUST SHEILD - C2 HOOK	2 Ea (2 ea)	100-Small Fab	5113748
C2-13-4P	Keeper C2 Hook	1 pcs (1 ea)	100-Small Fab	5029238
C2-13-5	Keeper Spring	1 Ea (1 ea)	100-Small Fab	5089083
C2-2-1P	Side Plate	1 Ea (1 ea)	100-Small Fab	5029242
C2-3-1P	Latch Shaft Du Bearing	2 pcs (2 ea)	100-Small Fab	5029293
C2-3-10	Latch Shaft	1 Ea (1 ea)	100-Small Fab	5096764
C2-3-11	Actuator	1 pcs (1 ea)	100-Small Fab	5075123
C2-3-2P	Latch Roller Pin	1 Ea (1 ea)	100-Small Fab	5029246

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐								
OTHER : _____									

C2-3-2-1	Roller Pin Retaining Ring	2 Ea (2 ea)	100-Small Fab
C2-3-3	Latch Roller	1 Ea (1 ea)	100-Small Fab
C2-3-3-1	Latch Roller DU Bearing	1 Ea (1 ea)	100-Small Fab
C2-3-5	Spacer, Teflon	2 Ea (2 ea)	100-Small Fab
C2-3-6	Latch	1 Ea (1 ea)	100-Small Fab
C2-3-8	Actuator Shaft Bushing	2 Ea (2 ea)	100-Small Fab
C2-4-1	Trunnion Bushing	2 Ea (2 ea)	100-Small Fab
C2-4-4A	Load Beam Assembly - C2 Hook	1 Ea (1 ea)	100-Small Fab
C2-5-1	Actuator Stop	1 Ea (1 ea)	100-Small Fab
C2-7-1P	Load Beam Bumper	1 pcs (1 ea)	100-Small Fab
C2-7-2	Lock Bumper	2 Ea (2 ea)	100-Small Fab
C2-9-1P	Clock Spring Cover	1 pcs (1 ea)	100-Small Fab
C2-9-2	Clock Spring	1 Ea (1 ea)	100-Small Fab
C2-9-3	Clock Spring Cover Screw	4 Ea (4 ea)	100-Small Fab
C3-10-2	Lock Spring	1 Ea (1 ea)	100-Small Fab
C3-3-4	Link Pin	2 Ea (2 ea)	100-Small Fab
C3-3-4-1	Ring, Retaining	4 pcs (4 ea)	100-Small Fab
C3-3-7	Link	1 Ea (1 ea)	100-Small Fab
C3-3-9	Actuator Spring	1 Ea (1 ea)	100-Small Fab
C3-8-2	Solenoid	1 Ea (1 ea)	100-Small Fab
C3-8-4	Solenoid Cover Gasket	1 Ea (1 ea)	100-Small Fab
C3-8-5	Solenoid Cover	1 Ea (1 ea)	100-Small Fab
CORD GRIP	Cord Grip	1 pcs (1 ea)	100-Small Fab
EL-PLUG-M	3-Prong Male Spade Plug	1 Ea (1 ea)	100-Small Fab
M27500-16TG2T14	Wire - 16-Gauge - Shielded	1 ft (1 ea)	100-Small Fab
MS21044N4	Nut, Self-Locking	3 Ea (3 ea)	100-Small Fab
MS21083N3	Nut	3 Ea (3 ea)	100-Small Fab
MS35266-63	Solenoid Cover Screw	1 Ea (1 ea)	100-Small Fab
MS35338-137	Washer	4 Ea (4 ea)	100-Small Fab
MS35338-137	Washer	4 Ea (4 ea)	100-Small Fab
NAS1149F0332P	Washer	4 Ea (4 ea)	100-Small Fab
NAS1149F0363P	Washer	1 Ea (1 ea)	100-Small Fab
NAS1149F0463P	Washer	6 Ea (6 ea)	100-Small Fab

5029247
 5068693
 5029248
 5111672
 5083029
 5079664
 5079588
 5029252
 5058759
 5029255
 5076396
 5029257
 5077510
 5061527
 5113706
 5118608
 5104409
 5048430
 5029280
 5111400
 5107494
 5108111
 5066710
 5072957
 5075144
 5042510
 5087938
 5075324
 5049176
 5103666
 5027738
 5056461

5093296

5117990

5058754

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	188-FPSS-1032-1/4	2	284	0
100-Small Fab	2595K22	1	52	0
	32446	2	602	0
	AN3-14A	1	100	0
	AN4-16A	2	491	0
	AN4-17A	1	343	0
	C2-1-1	1	14	0
	C2-10-1	1	92	0
	C2-11-1	1	0	0
	C2-11-2	2	86	0
	c2-12-1	2	36	0
	C2-12-3	1	20	0
	C2-12-7P	2	232	0
	C2-12-8	2	5	0
	C2-13-4P	1	27	0
	C2-13-5	1	49	0
	C2-2-1	1	0	0
	C2-3-1	2	59	0
	C2-3-10	1	16	0
	C2-3-11	1	11	0
	C2-3-2	1	0	0
	C2-3-2-1	2	18	0
	C2-3-3	1	3	0
	C2-3-3-1	1	14	0
	C2-3-5	2	26	0
	C2-3-6	1	14	0
	C2-3-8	2	24	0
	C2-4-1	2	106	0
	C2-4-4A	1	0	0
	C2-5-1	1	29	0
	C2-7-1P	1	106	0

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY			
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐				

C2-7-2	2	9	0
C2-9-1P	1	53	0
C2-9-2	1	54	0
C2-9-3	4	198	0
C3-10-2	1	15	0
C3-3-4	2	28	0
C3-3-4-1	4	200	0
C3-3-7	1	37	0
C3-3-9	1	46	0
C3-8-2	1	3	0
C3-8-4	1	29	0
C3-8-5	1	14	0
CORD GRIP	1	5	0
EL-PLUG-M	1	94	0
M27500-16TG2T14	1	88	0
MS21044N4	3	98	0
MS21083N3	3	263	0
MS35266-63	1	47	0
MS35338-137	8	498	0
NAS1149F0332P	4	3,303	0
NAS1149F0363P	1	613	0
NAS1149F0463P	6	1,037	0

Part Specifications

Specifications could not be found.

Plex 9/19/18 9:47 AM Dart.lajeunesse.marie

DART
AEROSPACE

Container No: S116158



Part: C2

Job No: 183511

Serial No/Batch: S116158

Revision: 2

Inspector:

Exp Date:

Instructions:

1210 Macleod Street
Hawkesbury, ON K6A 1K7
CANADA
TEL : 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Date: 10/05/18

Loctite 648 m138933
Grease Aeroshell m138724
SAF-T-lze m128063

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

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Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			Completed By
					Lead hand / Supervisor Approval Verification
					QC / QA Coordinator Approval
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					



Remote Cargo Hook Test Form

C2

MAKE SURE YOU ARE USING THE CORRECT TEST FORM FOR THE CORRECT SOLENOID!

NEW SOLENOID (152951-001)

Work Order: 183511

Customer: 8679

Serial Number: 5116158

Date: 11/10/18

# of Releases	Load (Lbs.)	Release Method	Remarks	Result	Pass/fail
1	5,000	Static Hold	Hold for two Minutes and reduce load to zero	N/A	Pass
10	1,000	Electircal, 25 volts	No "hang ups" permitted	N/A	Pass
2	2,000	Electircal, 22 volts	Current shall not exceed 13.0A	9.6 Amp.	Pass
2	1,500	Electircal, 22 volts	Current shall not exceed 13.0A	9.4 Amp.	Pass
2	1,000	Electircal, 22 volts	Current shall not exceed 13.0A	9.0 Amp.	Pass
2	500	Electircal, 22 volts	Current shall not exceed 13.0A	9.0 Amp.	Pass
2	100	Electircal, 22 volts	Current shall not exceed 13.0A	9.0 Amp.	Pass
1	2,000	Electircal, 20 volts	Current shall not exceed 13.0A	8.3 Amp.	Pass
1	2,000	Electircal, 28 volts	Current shall not exceed 13.0A	11.3 Amp.	Pass
1	2,000	Manual		N/A	Pass
1	2,000	Impact Test	Impact shackle 10 times, shall not release	N/A	Pass
1	N/A	Solenoid Ohms	Shall not exceed 2.1 - 2.4 Ohms	1.8 Ohms	Pass
1	N/A	Electircal Continuity	Across both wires	N/A	Pass

Test Conducted By: Francis Laeroux

Signature Sylvio Pouchard